

# ABSTRACT OF THE DISCLOSURE

A projector judges whether a power-factor improving circuit disposed between a rectifying circuit and a DC-DC converting circuit is operated or not, from a voltage appearing in an auxiliary winding wound in the primary side of a transformer to which an output of the power-factor improving circuit is applied. If it is judged that the power-factor improving circuit is not operated, a lamp power supplying circuit to which the output of the power-factor improving circuit is supplied, and which turns on a light source lamp is stopped. Therefore, the light source lamp can be prevented from being unnecessarily impaired, and the power consumption of the main unit can be suppressed, so that the running cost can be reduced.